

I CLAIM

1. A method of forming a coating on a surface, for example on the internal surface of a drinking water pipeline, the method comprising the steps of:

- (a) providing a first part comprising one or more aliphatic polyisocyanates,
- (b) providing a second part comprising one or more polyamines,
- (c) mixing together the first part and the second part to form a mixture,
- (d) applying the mixture as said coating to said surface, where the polyamines react with the polyisocyanate(s).

2. A method according to claim 1 wherein said first part includes one or more amine reactive resins blended with said aliphatic polyisocyanate or aliphatic polyisocyanates.

3. A method according to claim 2 wherein, after application of the mixture to said surface, the polyamine or polyamines react simultaneously with the polyisocyanate or polyisocyanates and the reactive resin or resins.

4. A method according to claim 1 wherein said second part comprises one or more aromatic polyamines.

5. A method according to claim 1 wherein said second part comprises one or more aromatic polyamines and one or more oligomeric polyamines blended together.

6. A method according to claim 1 wherein the mixture is applied to form a rapid setting coating.

7. A method according to claim 1 wherein the mixture is applied through heated airless spray equipment.

8. A method according to claim 7 wherein said spray equipment includes a centrifugal spinning head or self-mixing spray gun assembly.

9. A surface having a coating thereon formed by the method of any of claims 1 to 8.

10. A water pipeline having an internal surface provided with a coating formed by the method comprising the steps of:

- (a) providing a first part comprising one or more aliphatic polyisocyanates,
- (b) providing a second part comprising one or more polyamines,
- (c) mixing together the first part and the second part to form a mixture,

(d) applying the mixture as said coating to said surface, where the polyamines react with the polyisocyanate(s).

11. A method according to claim 10 wherein said first part includes one or more amine reactive resins blended with said aliphatic polyisocyanate or aliphatic polyisocyanates.

12. A method according to claim 11 wherein, after application of the mixture to said surface, the polyamine or polyamines react simultaneously with the polyisocyanate or polyisocyanates and the reactive resin or resins.

13. A method according to claim 10 wherein said second part comprises one or more aromatic polyamines.

14. A method according to any claim 10 wherein said second part comprises one or more aromatic polyamines and one or more oligomeric polyamines blended together.

15. A method according to claim 10 wherein the mixture is applied to form a rapid setting coating.

16. A method according to claim 10 wherein the mixture is applied through heated airless spray equipment.

17. A method according to claim 16 wherein said spray equipment includes a centrifugal spinning head or self-mixing spray gun assembly.

18. A two-part coating system comprising a first part comprising one or more aliphatic polyisocyanates and a second part comprising one or more polyamines, such that by mixing the first part and the second part and allowing the mixture to react, an impervious, non-toxic solid product can be formed.

19. A coating system according to claim 18 wherein said first part includes one or more "amine reactive" resins blended with said aliphatic polyisocyanate or aliphatic polyisocyanates.

20. A coating system according to claim 19 wherein, after application of the coating system, the polyamine or polyamines react simultaneously with the polyisocyanate or polyisocyanates and the reactive resin or resins.

21. A coating system according to claim 18 wherein said second part comprises one or more aromatic polyamines.

22. A coating system according to claim 18 wherein said second part comprises one or more aromatic polyamines and one or more oligomeric polyamines blended together.